1	FUZZY LOGIC HARDWARE	46	.Knowledge representation and
2	.Fuzzy neural network		reasoning technique
3	.Analog fuzzy computer (e.g.,	47	Ruled-based reasoning system
	controller)	48	Having specific pattern
4	.Digital fuzzy computer (e.g.,		matching or control technique
	controller)	49	Blackboard system
5	.Having function generator	50	Having specific management of a
6	By neural network		knowledge base
7	.Having function calculator	51	Non-monotonic reasoning system
8	.Fuzzy inference processing	52	Reasoning under uncertainty
9	.Defuzzification processing	F 2	(e.g., fuzzy logic)
10	PLURAL PROCESSING SYSTEMS	53	Frame-based reasoning system
11	HAVING PARTICULAR USER INTERFACE	54	Analogical reasoning system
12	MACHINE LEARNING	55	Semantic network (e.g.,
13	.Genetic algorithm and genetic		<pre>conceptual dependency, fact based structure)</pre>
	programming system	56	Predicate logic or predicate
14	ADAPTIVE SYSTEM	30	calculus
15	NEURAL NETWORK	57	Propositional logic
16	.Learning task	58	Temporal logic
17	Approximation	59	
18	Association	60	Expert system shell or tool
19	Constraint optimization problem	61	Knowledge acquisition by a
	solving	01	knowledge processing system
20	Classification or recognition	62	MISCELLANEOUS
21	Prediction	~ _	
22	<pre>Signal processing (e.g., filter)</pre>		
23			
23 24	Control	CROSS-F	REFERENCE ART COLLECTIONS
	<pre>ControlBeamforming (e.g., target</pre>		REFERENCE ART COLLECTIONS
	Control	<u>CROSS-F</u> 900	REFERENCE ART COLLECTIONS FUZZY LOGIC
24	<pre>ControlBeamforming (e.g., target location, radar)</pre>		_
2425	<pre>ControlBeamforming (e.g., target location, radar) .Learning method</pre>	900	FUZZY LOGIC
242526	<pre>ControlBeamforming (e.g., target location, radar) .Learning method .Structure</pre>	900 902 903	FUZZY LOGIC APPLICATION USING AI WITH DETAIL
24 25 26 27	<pre>ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitecture</pre>	900 902	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control Manufacturing or machine (e.g.,
24 25 26 27 28	<pre>ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModular</pre>	900 902 903	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control Manufacturing or machine (e.g., agricultural machinery,
24 25 26 27 28 29	<pre>ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLattice</pre>	900 902 903 904	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control Manufacturing or machine (e.g., agricultural machinery, machine tool)
24 25 26 27 28 29 30	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrent	900 902 903 904	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control Manufacturing or machine (e.g., agricultural machinery, machine tool) Vehicle or aerospace
24 25 26 27 28 29 30 31	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforward	900 902 903 904 905 906	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control Manufacturing or machine (e.g., agricultural machinery, machine tool) Vehicle or aerospaceProcess plant
24 25 26 27 28 29 30 31 32	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog	900 902 903 904 905 906 907	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control Manufacturing or machine (e.g., agricultural machinery, machine tool) Vehicle or aerospace Process plant Power plant
24 25 26 27 28 29 30 31 32 33 34	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)	900 902 903 904 905 906	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control Manufacturing or machine (e.g., agricultural machinery, machine tool) Vehicle or aerospace Process plant Power plant Electronic or computer
24 25 26 27 28 29 30 31 32 33 34	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulation	900 902 903 904 905 906 907 908	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant .Electronic or computer (internal or network) circuit
24 25 26 27 28 29 30 31 32 33 34	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-	900 902 903 904 905 906 907 908	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant .Electronic or computer (internal or network) circuit Communication
24 25 26 27 28 29 30 31 32 33 34	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-analog converter	900 902 903 904 905 906 907 908 909 910	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant .Electronic or computer (internal or network) circuit .Communication .Elevator
24 25 26 27 28 29 30 31 32 33 34 35 36	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-analog converterHaving digital weight	900 902 903 904 905 906 907 908 909 910 911	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant Electronic or computer (internal or network) circuit .Communication Elevator .Nonmedical diagnostics
24 25 26 27 28 29 30 31 32 33 34 35 36	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-analog converterHaving digital weightAnalog neural network	900 902 903 904 905 906 907 908 909 910	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant .Electronic or computer (internal or network) circuit .Communication .Elevator .Nonmedical diagnostics .Manufacturing or machine (e.g.,
24 25 26 27 28 29 30 31 32 33 34 35 36	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-analog converterHaving digital weight .Analog neural networkModifiable weight	900 902 903 904 905 906 907 908 909 910 911	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant .Electronic or computer (internal or network) circuit .Communication .Elevator .Nonmedical diagnostics .Manufacturing or machine (e.g., agricultural machinery,
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-analog converterHaving digital weightAnalog neural networkModifiable weightRadiant energy neural network	900 902 903 904 905 906 907 908 909 910 911 912	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control Manufacturing or machine (e.g., agricultural machinery, machine tool) Vehicle or aerospace Process plant Power plant Electronic or computer (internal or network) circuit Communication Elevator .Nonmedical diagnostics Manufacturing or machine (e.g., agricultural machinery, machine tool)
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-analog converterHaving digital weightAnalog neural networkModifiable weightRadiant energy neural networkDigital neural network	900 902 903 904 905 906 907 908 909 910 911 912	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant .Electronic or computer (internal or network) circuit .Communication .Elevator .Nonmedical diagnostics .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-analog converterHaving digital weightAnalog neural networkModifiable weightRadiant energy neural networkDigital neural networkParallel connection	900 902 903 904 905 906 907 908 909 910 911 912	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant .Electronic or computer (internal or network) circuit .Communication .Elevator .Nonmedical diagnostics .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-analog converterHaving digital weightAnalog neural networkModifiable weightRadiant energy neural networkDigital neural networkParallel connectionDigital neuron processor	900 902 903 904 905 906 907 908 909 910 911 912	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant .Electronic or computer (internal or network) circuit .Communication .Elevator .Nonmedical diagnostics .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	ControlBeamforming (e.g., target location, radar) .Learning method .StructureArchitectureModularLatticeRecurrentMultilayer feedforwardSingle-layerSemiconductor neural networkHybrid network (i.e., analog and digital)Using pulse modulationHaving multiplying digital-to-analog converterHaving digital weightAnalog neural networkModifiable weightRadiant energy neural networkDigital neural networkParallel connection	900 902 903 904 905 906 907 908 909 910 911 912	FUZZY LOGIC APPLICATION USING AI WITH DETAIL OF THE AI SYSTEM .Control .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant Power plant .Electronic or computer (internal or network) circuit .Communication .Elevator .Nonmedical diagnostics .Manufacturing or machine (e.g., agricultural machinery, machine tool) .Vehicle or aerospace .Process plant

917	Communication
918	Elevator
919	.Designing, planning,
	programming, CAD, CASE
920	Simulation
921	Layout (e.g., circuit,
	construction)
922	Computer program preparation
923	Construction
924	.Medical
925	.Business
926	Time management
927	.Education or instruction
928	.Earth science
929	Geological (e.g., seismology)
930	Environment
931	Weather
932	.Mathematics, science, or
	engineering
933	.Law, law enforcement, or
	government
934	.Information retrieval or
	information management

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FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

FOR 100 ARTIFICIAL INTELLIGENCE (395/1)

FOR 101 .Fuzzy logic hardware (395/3)

FOR 102 .Knowledge processing (395/10)

FOR 103 ..Plural processing systems (395/11)

FOR 104 ..Graphical or natural language user interface (395/12)

FOR 105 ..Genetic algorithm (395/13)

FOR 106 ..Trainable (i.e., adaptive)

system (395/20)

FOR 107 ...Neural network (395/21)
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FOR 108 .... Connectionist expert system
           (395/22)
FOR 109 .... Training (i.e., programming
          or learning) (395/23)
FOR 110 .... Structure (395/24)
FOR 111 .....Radiant energy type (e.g.,
          optical) (395/25)
FOR 112 .....Sequential processor (395/
           26)
FOR 113 .....Including a digital or
           binary element (395/27)
FOR 114 .. Expert system (395/50)
FOR 115 ... Deduction, control, or search
           techniques (395/51)
FOR 116 ....Forward or backward chaining
           (395/52)
FOR 117 ....Blackboarding (395/53)
FOR 118 .... Knowledge base accessing
          (e.g., DBMS, table) (395/54)
FOR 119 .... Truth maintenance system
           (TMS) (395/55)
FOR 120 ... Knowledge representation (395/
           60)
FOR 121 .... For inexact knowledge (e.g.,
          fuzzy logic) (395/61)
FOR 122 ....Object (i.e., object-
           attribute-value), frame and
           slot, or script (395/62)
FOR 123 ....Semantic network (i.e.,
           conceptual dependency, fact
           based structure) (395/63)
FOR 124 ....Rete network or meta-
           knowledge (395/64)
FOR 125 .... Inheritance (395/65)
FOR 126 .... Predicate logic or predicate
           calculus (395/66)
FOR 127 ....Propositional logic (395/67)
FOR 128 .... History base (395/68)
FOR 129 ...Creation or modification of an
           expert system (395/75)
FOR 130 ....Expert system shell or tool
           (395/76)
FOR 131 ....Learning or knowledge
           acquisition by the expert
           system (395/77)
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